

More Patterns from Gzorp

Professor Peabody made data tables for some other creatures from Planet Gzorp. The tables show each animal's age in years (A) in the first column and the animal's size in squares (S) in the second column.



The problem is that Professor Peabody forgot to record data for some of the animals he observed. He is also missing formulas for some of the animals. Help Professor Peabody by completing the tables and formulas for him.

For Questions 1–4, predict values for the missing data in each of Professor Peabody's tables. If there is no formula written in the box below the table, write a formula that fits the pattern you see.

1. Long-Tailed Dragonfly

A Age in Years	S Size in Squares
1	7
2	8
3	9
4	
	11
6	
20	
	245

S =

2. Add Three Shark

A Age in Years	S Size in Squares
1	4
2	7
3	10
4	
5	
10	
	37
50	

S =

Name _____

Date _____

3. Four Stripes Snake

A Age in Years	S Size in Squares
1	
2	
3	
4	
5	
	38
20	
30	

$S = 4 \times A - 2$

4.

A Age in Years	S Size in Squares
1	5
2	7
3	9
	11
5	
6	15
15	
50	

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Check-In: Question 5

5. For the table in Question 4, use square-inch tiles to build a model of a new animal from Gzorp that fits the data. Name the animal and write it as the title of the data table. Make drawings of the animal for each age from 1 through 5 years. Show how you know that your animal's growth matches the data and formula from Question 4.

Name _____ Date _____

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Check-In: Question 5
Feedback Box

	Expectation	Check In	Comments
Identify and describe number patterns.	E3		
Use variables in formulas to represent number patterns and make predictions.	E4		
Represent number patterns using words, tables, and graphs.	E8		
Make predictions and generalizations using data tables and graphs.	E9		

Yes ...

Yes, but ...

No, but ...

No ...

	Yes ...	Yes, but ...	No, but ...	No ...
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem.				
MPE3. Check for reasonableness. I look back at my solution to see if my answer makes sense. If it does not, I try again.				